LiuGong North America

9035FZTS

EXCAVATOR

ENGINE	OPERATING WEIGHT	GROSS POWER	BUCKET CAPACITY	MAX. DIGGING DEPTH
Yanmar 3TNV88F-ESLY	8,380 lb (3.800 kg)	24 hp (18 kW)	3.9 cu ft (110 L)	10' 1" (3,085mm)



SPECIFICATIONS

ENGINE

Yanmar EPA Tier 4 final / EU Stage V, 4-cylinder, 4 stroke direct injection diesel engine.

Emission rating	EPA Tier 4 Final/EU Stage V
Engine manufacturer	Yanmar
Engine model	3TNV88F-ESLY
Aspiration	Natural
Charged air cooling	-
Cooling fan drive	Direct
Displacement	100 in^3 (1.6 L)
Gross power	24 hp (18 kW) @ 2,200 rpm
Net power	23 hp (17 kW) @ 2,200 rpm
Peak torque	70 lbf·ft (94 N·m) @ 1,320 rpm
Cylinder	4 cylinders, water-cooled
Bore × Stroke	3.4" x 3.5" (88 mm × 90 mm)

HYDRAULIC SYSTEM

Main pump, type	Variable-displacement piston
Main pump, maximum flow	26.2 gpm (99 L/min)
Implement pressure	3,670 psi (25.3 MPa)
Auxiliary 1, one-way pressure	2,610 psi (18 MPa)
Auxiliary 1, two-way pressure	2,610 psi (18 MPa)
Auxiliary 1, maximum flow	14.5 gpm (55 L/min)
Auxiliary 2, two-way pressure	2,320 psi (16 MPa)
Auxiliary 2, maximum flow	8 gpm (30 L/min)
Slew circuit pressure	2,990 psi (20.6 MPa)
Travel circuit pressure	3,550 psi (24.5 MPa)

OPERATING WEIGHT

Operating weight, canopy	7,800 lb (3,540 kg)
Operating weight, cab	8,380 lb (3,800 kg)

SERVICE CAPACITIES

Fuel tank	14.5 gal (55 L)
Engine oil	1.8 gal (6.7 L)
Cooling system	1.9 gal (7 L)
Hydraulic reservoir	11 gal (42 L)
Hydraulic system, total	15 gal (58 L)

UNDERCARRIAGE

Track shoe each side	44
Link pitch	4" (101.6 mm)
Shoe width, triple grouser	12" (300 mm)
Bottom rollers each side	4
Top rollers each side	1

SWING SYSTEM

Planetary gear reduction driven by high torque axial piston motor with spring applied parking brake; Hydraulic oil lubrication.

Swing speed	10 rpm
Swing torque	5,910 lbf·ft (8,009 N·m)

DRIVE & BRAKES

2-speed drive motors allow auto speed shifting. Each motor is equipped with a hydraulic released, spring applied parking brake.

Max. travel speed	High: 2.6 mph (4.2 km/h) Low: 1.6 mph (2.5 km/h)
Gradeability	30°/58%
Max. drawbar pull	7,420 lbf (33 kN)

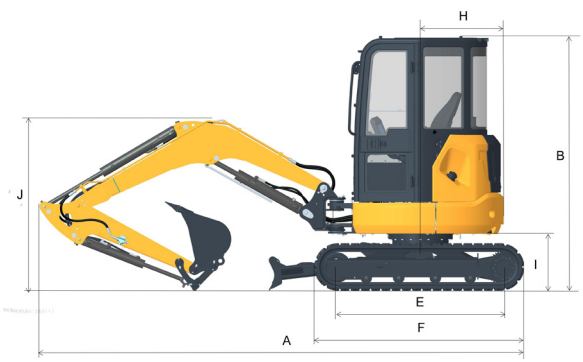
ELECTRIC SYSTEM

System voltage	12 V
Batteries	1 x 12 V
Alternator	12 V-55 A
Start motor	12 V-2.3 hp (1.7 kW)

SOUND PERFORMANCE

Interior sound level (ISO 6396)	78 dB(A)
Exterior sound level (ISO 6395)	94 dB(A)

SPECIFICATIONS



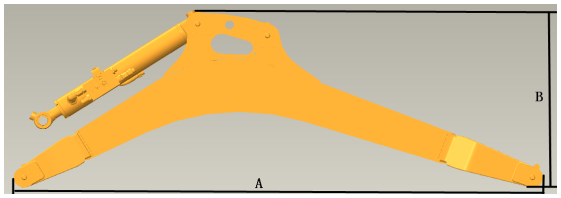


DIMENSIONS

	Boom	8' (2,450 mm)
	Stick	4' 4'' (1,320 mm)
A	Shipping length	15' 9'' (4,810 mm)
B	Shipping height - top of cab	8' 2'' (2,500 mm)
C	Track gauge	4' 7'' (1,400 mm)
D	Undercarriage width	5' 7'' (1,700 mm)
E	Length to center of rollers	5' 6'' (1,675 mm)
F	Track length	6' 11'' (2,100 mm)
G	Overall width of upper structure	5' 3'' (1,600 mm)
H	Tail swing radius	2' 9'' (850 mm)
I	Counterweight ground clearance	1' 11'' (580 mm)
J	Height – top of boom	5'' 6'' (1,685 mm)
K	Min. ground clearance	10'' (258 mm)
L	Track shoe width, standard	1' (300 mm)

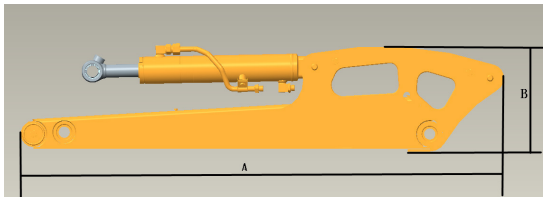
BOOM

Boom	8' (2,450 mm)
Length (A)	8' 4" (2,548 mm)
Height (B)	2' 8" (806 mm)
Width	11" (273 mm)
Weight	313 lb (142 kg)



STICK

Stick	4' 4" (1,320 mm)
Length (A)	5' 7" (1,706 mm)
Height (B)	1' 3" (392 mm)
Width	5.7" (145 mm)
Weight	172 lb (78 kg)



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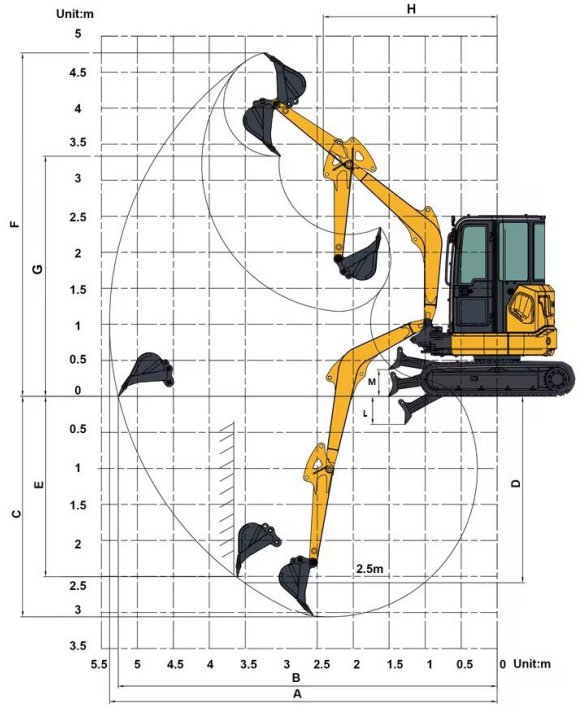
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SPECIFICATIONS

9035FZTS WEIGHTS AND GROUND PRESSURE

8' (2,450 mm) boom, 4' 4'' (1,320 mm) stick, 3.9 cu ft (110 L) bucket, 1230 lb (560 kg) counterweight

Shoe width (in/mm)	Operating weight (lb/kg)	Ground pressure (psi/kPa)	Overall width (in/mm)
1' (300mm)	8,380 lb (3,800 kg) (Cab)	5.1 psi (35 kPa)	5' 7" (1,700 mm)
1' (300mm)	7,800 lb (3,540 kg) (Canopy)	4.9 psi (34 kPa)	5' 7" (1,700 mm)



WORKING RANGES

	Boom	8' (2,450 mm)
	Stick	4' 4'' (1,320 mm)
A	Max. digging reach	17' 8'' (5,385 mm)
B	Max. digging reach at ground level	17' 3'' (5,270 mm)
C	Max. digging depth	10' 1'' (3,085 mm)
D	Max. digging depth 8 ft (2.4 m) level floor	8' 7'' (2,610 mm)
E	Max. vertical wall digging depth	8' 3'' (2,503 mm)
F	Max. digging height	15' 5'' (4,710mm)
G	Max. dumping height	10' 10'' (3,310 mm)
H	Min. swing radius	7' 11'' (2,416 mm)
L	Dozer-down	1' 3'' (390 mm)
M	Dozer-up	1' 3'' (370 mm)
	Stick digging force (ISO)	4,950 lbf (22 kN)
	Bucket digging force (ISO)	6,740 lbf (30 kN)
	Bucket capacity*	3.9 cu ft (110 L)
	Bucket tip radius*	2' 5'' (725mm)
	Bucket width*	2' (610 mm)

* Factory standard

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SPECIFICATIONS

9035FZTS BUCKET SELECTION GUIDE

Attachment	Capacity		Cutting Width		Weight		Teeth	Max. Material Density
	Metric	Imperial	Metric	Imperial	Metric	Imperial	EA	8' Boom
	L	cu ft	mm	in	kg	lb		4'4" Stick
Standard earth-moving bucket	70	2.5	458	18"	82	181	3	A
Standard earth-moving bucket	70	2.5	458	18"	86	189	4	A
Standard earth-moving bucket	110	3.9	610	24"	100	221	4	A
Standard earth-moving bucket	110	3.9	658	26"	107	235	4	A
Digging bucket	45	1.6	305	12"	62	136	2	A/B
Digging bucket	65	2.3	405	16"	76	168	3	A/B
Grading bucket	140	4.9	830	33"	205	452	---	A
Ditch cleaning bucket	180	6.4	1,000	39"	160	353	---	A
Ditch cleaning bucket	300	10.6	1,470	58"	164	362	---	A

Maximum material density:

A. 74.6-80.9 lb/cu ft (1.2-1.3 kg/L): coal, caliche and shale

B. 87.1-99.5 lb/cu ft (1.4-1.6 kg/L) : Wet earth and clay, limestone, and sandstone

C. 105.7-112 lb/cu ft (1.7-1.8 kg/L) : Granite, wet sand, and well blasted rock

D. 118.2 lb/cu ft (1.9 kg/L): Wet mud, and iron ore

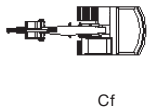
NA. Not applicable

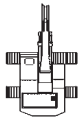
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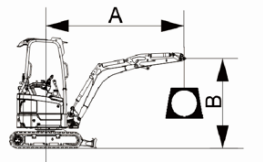
SPECIFICATIONS

A: Reach from swing center
B: Stick-to-bucket pin height
C: Lifting capacity
Cf: Rating over front
Cs: Rating over side


Cf


Cs

Conditions:
Boom length: 8'
Stick length: 4' 4"
Shoes: 1'
Unit: lb



1. Do not attempt to lift or hold any load that is greater than these rated values at their specified load radius and height. Weight of all accessories must be deducted from the above lifting capacities.
2. The rated loads are in compliance with ISO 10567 Hydraulic Excavator Lift Capacity Rating Standard. They do not exceed 87% of hydraulic lifting capacity or 75% up tipping load.
3. Ratings are at the bucket to stick pin centerline.
4. Lifting capacities are based on machines set on level, firm and uniform ground.
5. *Indicates the load is limited by hydraulic capacity rather than tipping capacity.
6. Operator should be fully acquainted with the Operation and Maintenance Manual and Maintenance Instructions before operating this machine. Rules for the safe operation of equipment should be adhered to at all times.

9035FZTS

A (Blade down)

B (ft-in)	6' 7"		9' 10"		13' 1"		Max Reach		
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (ft-in)
9' 10"					*1,430	1,080	*1,460	990	**13' 9"**
6' 7"			*1,850	1,720	*1,540	1,060	*1,480	820	**15' 2"**
3' 3"			*2,320	1,590	*1,810	1,010	*1,520	750	**15' 7"**
GROUND LEVEL	*3,810	2,800	*3,060	1,500	*1,980	970	*1,590	750	**15' 1"**
-3' 3"	*5,290	2,840	*2,930	1,480	*1,830	970	*1,650	900	**13' 8"**

9035FZTS

A (Blade up)

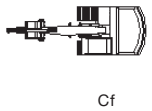
B (ft-in)	6' 7"		9' 10"		13' 1"		Max Reach		
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (ft-in)
9' 10"					1,390	1,080	1,280	990	**13' 9"**
6' 7"			*1,850	1,720	1,370	1,060	1,080	820	**15' 2"**
3' 3"			2,090	1,590	1,320	1,010	1,010	750	**15' 7"**
GROUND LEVEL	*3,810	2,800	2,010	1,500	1,280	970	1,010	750	**15' 1"**
-3' 3"	*3,920	2,880	1,980	1,480	1,280	970	1,210	900	**13' 8"**

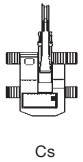
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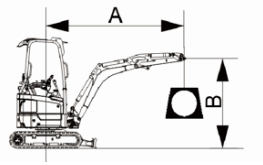
SPECIFICATIONS

A: Reach from swing center
B: Stick-to-bucket pin height
C: Lifting capacity
Cf: Rating over front
Cs: Rating over side





Conditions:
Boom length: 2450 mm
Stick length: 1,320 mm
Shoes: 300 mm
Unit: kg



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A (Blade down)

B (m)	2		3		4		Max Reach		
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (m)
3					*650	490	*660	450	**4.2**
2			*840	780	*700	480	*670	370	**4.6**
1			*1,050	720	*820	460	*690	340	**4.7**
GROUND LEVEL	*1,730	1,270	*1,390	680	*900	440	*720	340	**4.6**
-1	*2,400	1,290	*1,330	670	*830	440	*750	410	**4.2**

9035FZTS

A (Blade up)

B (m)	2		3		4		Max Reach		
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (m)
3					630	490	580	450	**4.2**
2			*840	780	620	480	490	370	**4.6**
1			950	720	600	460	460	340	**4.7**
GROUND LEVEL	*1,730	1,270	910	680	580	440	460	340	**4.6**
-1	1,780	1,290	900	670	580	440	550	410	**4.2**

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SPECIFICATIONS

9035FZTS STANDARD EQUIPMENT

ENGINE SYSTEM	Dual element air filter
	Fuel pre-filter with fuel water separator
	Electronic engine speed control
	Automatic engine preheating
	Engine overheat prevention system
	Engine oil low pressure protection
	Auto-idle speed control
	Alarm: oil pressure, low fuel level, clogged air filter, overheating
ELECTRICAL SYSTEM	T-BOX
	Master electrical disconnect switch
	12V power source
	Maintenance-free battery
	Guarded boom working light
	Rotating beacon
	Engine start password selection
	Interactive color LCD display
	Standard and Economy power modes
HYDRAULIC SYSTEM	Pilot operated joysticks with electrohydraulic auxiliary functions
	Hydraulic quick coupler circuit
	Boom cylinder guard
	Angle Blade with 50 deg sweep
	Angle Blade cylinder guards
	Pilot hydraulic oil preheating
	2-speed travel with auto-shift
	Electro-proportional joystick controlled boom swing
	Secondary auxiliary hydraulic lines for rotation or tilt

9035FZTS STANDARD EQUIPMENT

OPERATOR STATION	Adjustable armrest heights
	Travel levers with foldable travel pedals
	Emergency escape and escape hammer
	AM/FM radio with USB input and bluetooth
	TOPS Cab (TOP Guard, Level I)
	A/C with defogging and defrosting functions
	Working Lights, (4) front & (2) rear
DIGGING EQUIPMENT	Boom, 8' (2,450mm)
	Standard stick, 4'4'' (1,320mm)
	Boom swing
	Hydraulic thumb
	Mechanical quick coupler
UPPER STRUCTURE	Belted rubber tracks, 12'' (300mm) width
OTHERS	Grease gun holder
	Counterweight 1230 lb (560kg)

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SPECIFICATIONS

9035FZTS OPTIONAL EQUIPMENT

ELECTRICAL SYSTEM	Front work light, on cab, long strip
HYDRAULIC SYSTEM	Stick cylinder rod protection
	Bucket cylinder rod protection
	Attachment return lines
	Lifting overload alarm
	Boom and stick load holding valves
OPERATOR STATION	Canopy with TOPS guard, level I
	Lower front window guard
	Roof guard
	Front work lights, on cab, 2 (Canopy)
DIGGING EQUIPMENT	Counterweight 600lb (270kg)
	Stick, 5'7'' (1,700mm)
	18'' (458 mm) width, standard earth-moving bucket, 2.5 ft³ (70 L), 3 teeth
	18'' (458 mm) width, standard earth-moving bucket, 2.5 ft³ (70 L), 4 teeth
	24'' (610 mm) width, standard earth-moving bucket, 3.9 ft³ (110 L), 4 teeth
	26'' (658 mm) width, standard earth-moving bucket, 3.9 ft³ (110 L), 4 teeth
	12'' (305 mm) width, digging bucket, 1.6 ft³ (45 L), 2 teeth
	16'' (405 mm) width, digging bucket, 2.3 ft³ (65 L), 2 teeth
	33'' (830 mm) width, grading bucket, 4.9 ft³ (140 L)
	39'' (1000 mm) width, ditch cleaning bucket, 6.4 ft³ (180 L)
	58'' (1470 mm) width, ditch cleaning bucket, 10.6 ft³ (300 L)
	Hammer, LiuGong LGB53
	Hydraulic quick coupler

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